

Rpt. 5a.

## REPORT ON BOILERS

No. 16080

BAT. MAY. 12 1923

Received at London Office

WEST HARTLEPOOL

Date of writing Report *14<sup>th</sup> May 1923* When handed in at Local Office *11 May 1923* Port of *West Hartlepool*  
No. in Survey held at *West Hartlepool* Date, First Survey *15 Feby* Last Survey *10 May 1923*  
Reg. Book. *Main boilers (D 153). S.S. "PEGAWAY"* (Number of Visits) *1* Gross Tons *10* Net Tons *10*  
Master *Middlesbrough* Built at *Middlesbrough* By whom built *Smiths Dock Co Ltd* When built *1923*  
Engines made at *Middlesbrough* By whom made *Smiths Dock Co Ltd* When made *1923*  
Boilers made at *West Hartlepool* By whom made *Richardsons Westgarth & Co* When made *1923*  
Registered Horse Power *10* Owners *Richardsons Westgarth & Co* Port belonging to *Richardsons Westgarth & Co*

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel *J. Spencer & Sons Ltd.*(Letter for record *S.*) Total Heating Surface of Boilers *3154 ft<sup>2</sup>* Is forced draft fitted *No* No. and Description of Boilers *Two, single ended.* Working Pressure *180 lb* Tested by hydraulic pressure to *320 lb* Date of test *1.5.23*No. of Certificate *3623* Can each boiler be worked separately *Yes* Area of fire grate in each boiler *41.7 ft<sup>2</sup>* No. and Description of safety valves to each boiler *2 direct spring* Area of each valve *5.94 in<sup>2</sup>* Pressure to which they are adjusted *185 lb.*Are they fitted with easing gear *Yes* In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler *Yes*Smallest distance between boilers or uptakes and bunkers or woodwork *2'-0"* Mean dia. of boilers *13'-3"* Length *10'-6"*Material of shell plates *Steel* Thickness *1 3/32"* Range of tensile strength *28/32* Are the shell plates welded or flanged *No*Descrip. of riveting: cir. seams *D.R. Lap.* long. seams *J.R. D.B.S.* Diameter of rivet holes in long. seams *1 3/32"* Pitch of rivets *7 3/8"*Lap of plates or width of butt straps *16 1/8"* Per centages of strength of longitudinal joint rivets *92.5* Working pressure of shell by rules *180 lb* Size of manhole in shell *13" x 16 1/2"* Size of compensating ring *2'-4 1/2" x 2'-6" x 1 3/32"* No. and Description of Furnaces in each boiler *2 Deighton* Material *Steel* Outside diameter *46 1/16"* Length of plain part *19"* Thickness of plates crown *19"* bottom *3/32"*Description of longitudinal joint *welded* No. of strengthening rings *1* Working pressure of furnace by the rules *184* Combustion chamber plates: Material *Steel* Thickness: Sides *19"* Back *19"* Top *19"* Bottom *3/4"* Pitch of stays to ditto: Sides *8" x 8 1/4"* Back *8 1/4" x 8 1/4"*Top *7 1/4" x 8 5/8"* If stays are fitted with nuts or riveted heads *nuts* Working pressure by rules *180* Material of stays *Steel* Diameter at smallest part *1 1/2"* Area supported by each stay *8 1/4" x 8 1/4"* Working pressure by rules *186* End plates in steam space: Material *Steel* Thickness *1 3/32"*Pitch of stays *17 1/4" x 17 1/4"* How are stays secured *D nuts* Working pressure by rules *187* Material of stays *Steel* Diameter at smallest part *2 3/4"*Area supported by each stay *17 1/4" x 17 1/4"* Working pressure by rules *185* Material of Front plates at bottom *Steel* Thickness *7/8"* Material of Lower back plate *Steel* Thickness *3/4"* Greatest pitch of stays *13 1/4" x 8 1/4"* Working pressure of plate by rules *186* Diameter of tubes *3 1/4"*Pitch of tubes *4 5/8" x 4 3/8"* Material of tube plates *Steel* Thickness: Front *7/8"* Back *3/4"* Mean pitch of stays *10 5/8"* Pitch across wide water spaces *14 1/4"* Working pressures by rules *187* Girders to Chamber tops: Material *Steel* Depth and thickness of girder at centre *8 5/8" x 1 3/4"* Length as per rule *32 1/2"* Distance apart *8 5/8"* Number and pitch of Stays in each *Three 7 3/4"*Working pressure by rules *180* Superheater or Steam chest: how connected to boiler *none* Can the superheater be shut off and the boiler worked separately *Yes*

Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

The foregoing is a correct description,  
For RICHARDSONS, WESTGARTH & CO. LIMITED.

Manufacturer.

Dates of Survey *1923. Feby 15. 19. Mar 6. 27. 16. 20. 23. 29. Apr 5. 11. 17. 20* Is the approved plan of boiler forwarded herewith *yes*  
while *26. May 1. 4. 10.* Total No. of visits *16.*  
building *During progress of work in shops - - -*  
*During erection on board vessel - - -*

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *These boilers have been constructed under Special Survey. The materials and workmanship are good. On completion they satisfactorily withstood the hydraulic test. They have been satisfactorily fitted on board, examined under steam & safety valves adjusted*

Survey Fee ... £ *21 : 0*When applied for, *11 May 1923*

Travelling Expenses (if any) £

When received, *17 June 1923*

R.D. Shilstone

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

FRI 8 JUN 1924

Lloyd's Register  
Foundation  
WSN-0067